

# PATENT SPECIFICATION

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(52) Index at acceptance  
B8C M  
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## (54) SACK HOLDERS

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the supporting members thereby clamping  
the sack mouth between them and main-  
taining it in open-mouthed condition, the  
30 supporting members being supported by a  
support structure located wholly below the  
level of the supporting members.

In the accompanying drawings:—

Figure 1 is a general view of one form  
35 of holder for clamping a sack in open-  
mouthed condition according to the present  
invention.

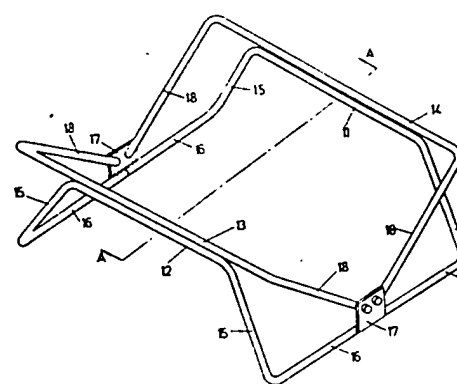
Figure 2 is a cross-section, on a smaller  
scale taken on line A-A of Figure 1.

40 Figure 3 shows diagrammatically how  
the mouth of a sack in clamped by the  
holder, and

Figures 4 and 5 show details of two  
possible modifications to the holder of  
45 Figure 1.

LILLY ★ Q31 L0245Y/50 ★ GB 1494-835  
Sack holder for opening sack - has clamps which hold sack mouth  
open and load in sack increases clamping action  
DRG PACKAGING LTD 15.11.74-GB-049558  
(14.12.77) B65b-67 12

The holder for clamping a sack in open-mouthed condition  
includes spaced supporting members (11, 12) each assoc-



iated with a separ-  
ate clamping mem-  
ber (14, 13) which  
is movable to a  
position above and  
contacting the su-  
porting member.  
In use, the sack  
mouth is folded out-  
wardly and down-  
wardly around the  
clamping members  
to extend between  
each clamping  
member and its  
associated support-  
ing member in a

position in which load on the sack urges the clamping  
members on to the supporting members to clamp the sack  
mouth and to maintain it open. A support structure (15, 16)  
for the supporting members is located wholly below the  
level of the supporting members. 14.10.75. (4501057)

the clamping rail 13 or 14 is aligned directly

above the support rail 12 or 11, as is best

seen in figure 2.

With this structure, a sack 19 (figure 3) 75  
may be supported in open-mouthed condi-  
tion by passing the mouth of a sack up  
between the clamping rails and then folding  
a portion of the open-end outwardly and  
downwardly between each clamping rail 80  
and adjacent support rail. When the posi-  
tion shown in figure 3 has been achieved,  
the sack is disposed in open-mouthed con-  
dition and is clamped to the structure by  
the weight of the bag and its contents due 85  
to the self-clamping action afforded by the  
downward force acting upon clamping rails  
13 and 14 serving to clamp the mouth of  
the bag between these rails and the support  
rails upon which they are resting. 90

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Suitable means (not shown) may be provided for supporting the side rails 16, and thus the entire structure, above the ground to provide sufficient clearance for the sack.

5 The clamping rails and or the support rails may have a surface finish or coating or covering serving to enhance the gripping effect of the rails upon the sack.

Various multiple structures for clamping 10 a number of sacks are envisaged within the scope of the present invention. For example, a number of holders may be arranged in side-by-side or end-to-end relationship or a number of holders may be 15 arranged around a central support.

Figure 4 shows a modified arrangement in which the extensions of the clamping rails 13 and 14 are cranked as shown at 18' and the supporting arms of the support 20 rails 11 and 12 are cranked as shown at 15'. It will be appreciated that in the arrangement of Figure 1 the inclination of the supporting arms 15 serves to provide clearance for the folded-over mouth portion 25 of the sack, and the cranked extensions 18' and arm 15' provide similar clearance in the arrangement of Figure 4.

Figure 5 shows a further modification in which the clamping rails 13 and 14 are not 30 mounted for pivoted movement but are mounted for up and down movement upon the fixed supporting arms 15' by means of links 20. In this arrangement clamping rails 13 and 14 and cranked extensions 18' 35 are all joined together, integrally or otherwise, and may be raised and lowered as a single frame.

#### WHAT WE CLAIM IS:—

1. A holder for clamping a sack in open- 40 mouthed condition which includes spaced supporting members each associated with a separate clamping member movable to a position where it contacts the supporting member and is positioned above and sup- 45 ported by it, the arrangement being such

that in use the mouth of the sack may be folded outwardly and downwardly around the clamping members to extend between each clamping member and its associated 50 supporting member in a position in which load on the sack urges the clamping members on to the supporting members thereby clamping the sack mouth between them and maintaining it in open-mouthed condition, the supporting members being supported 55 by a support structure located wholly below the level of the supporting members.

2. A holder as claimed in Claim 1, wherein each clamping member consists of a rail pivotable about an axis parallel to its 60 length towards and away from the said position where it overlies its associated supporting member.

3. A holder as claimed in Claim 1, wherein each clamping member consists of 65 a rail slidable in a direction at right angles to its length towards and away from the said position where it overlies its associated supporting member.

4. A holder as claimed in Claim 1, 2 or 70 3, wherein each supporting member consists of a support rail joined at each end to supporting arms forming part of the support structure.

5. A holder as claimed in any one of 75 Claims 1 to 4, wherein the supporting and/or clamping members are provided with a surface finish or coating or covering serving to enhance the gripping effect of the members upon the sack 80

6. A holder for clamping a sack in open-mouthed condition, substantially as described with reference to any of the accompanying drawings.

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1977

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2 SHEETS

COMPLETE SPECIFICATION

This drawing is a reproduction of  
the Original on a reduced scale.

SHEET 1

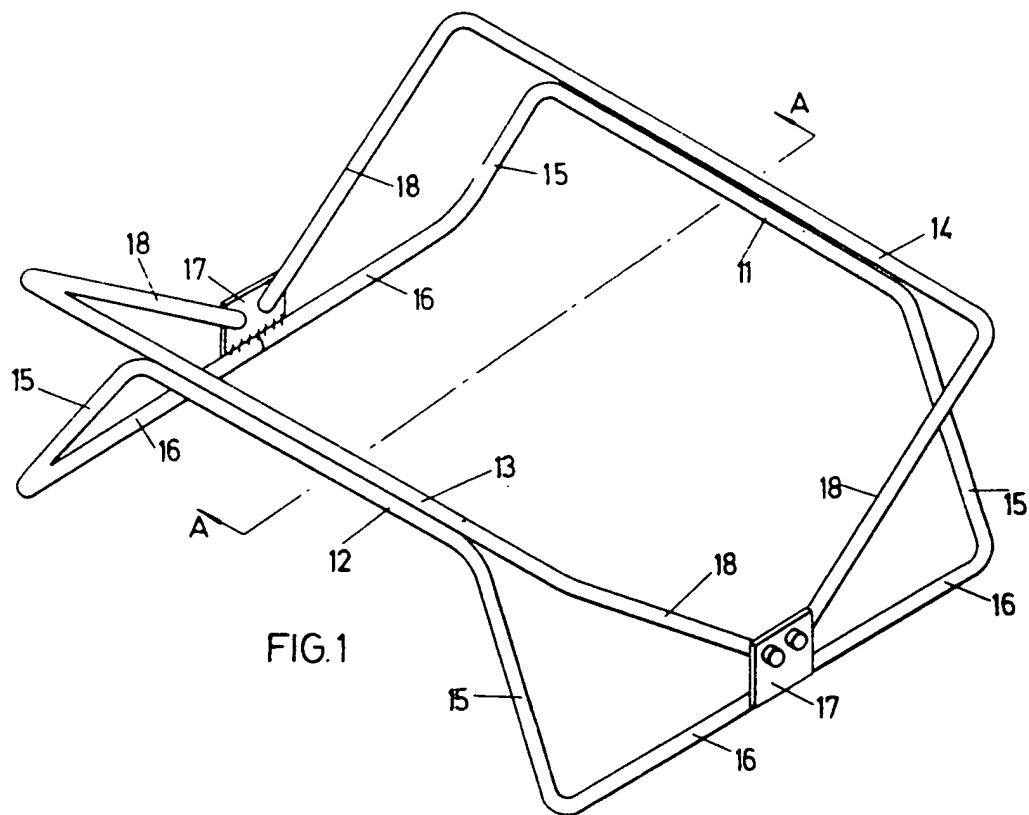


FIG. 1

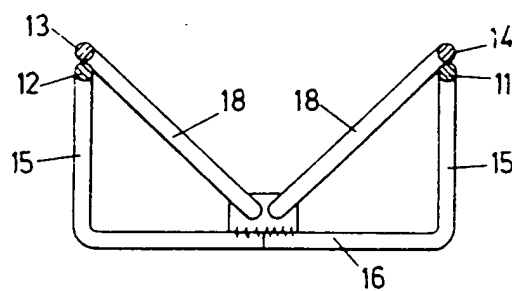


FIG. 2

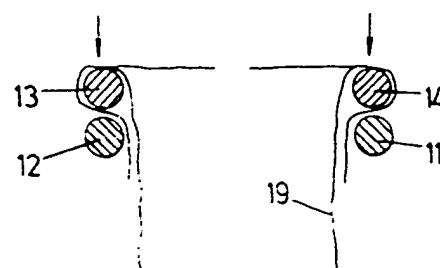


FIG. 3

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COMPLETE SPECIFICATION

2 SHEETS

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the Original on a reduced scale.  
SHEET 2

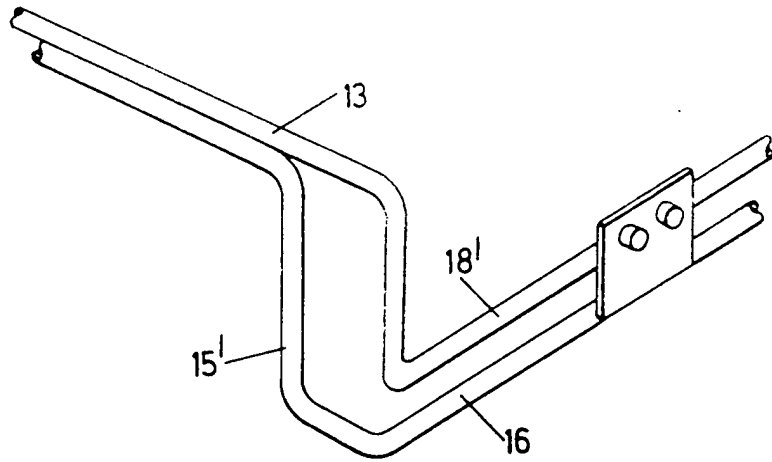


FIG. 4 .

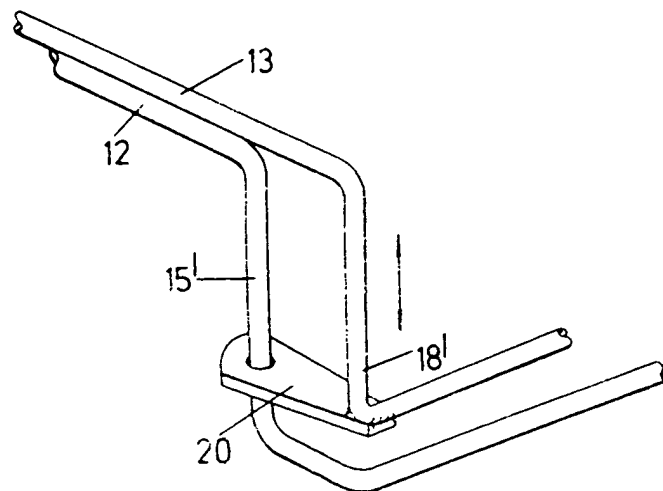


FIG. 5 .

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